

1. A monopole low frequency test woofer,
comprising:

a monopole driver having a high mass cone and low resonance in free air, said driver being mounted on said mounting plate with a basket of said driver fitting about said acoustical opening;

a rear tub attached to said mounting plate forming an enclosure housing said monopole driver and inductor; and

2. A test woofer, as set forth in claim 1, wherein said inductor contours frequency response of monopole driver to match frequency response of a vehicle dipole speaker over a frequency range of interest.

4. A test woofer, as set forth in claim 1, including a seal between said mounting plate and said tub.

5. A test woofer, as set forth in claim 1, wherein said rear tub is sealed to a rear surface of said mounting plate.

6. A test woofer, as set forth in claim 1,
 wherein a top portion of a rear panel of said rear tub
 is offset inward toward said mounting plate to have
 lesser depth than a bottom portion of said rear tub to
 5 thereby form a slot.

7. A test woofer, as set forth in claim 6,
 wherein said electrical connector is positioned in said
 slot.

8. A test woofer, as set forth in claim 7,
 wherein said electrical connector is flush with said
 lower portion of said rear panel.

9. A band limited radiating source,
 comprising:

a rigid mounting plate having an acoustical
 opening;

5 a monopole low frequency driver mounted on said
 mounting plate with a basket of said driver fitting
 about said acoustical opening;

a tub sealed to said mounting plate forming an
 enclosure housing said monopole driver; and

10 an electrical connector on said tub for
 connecting said monopole driver to an external circuit.

10. A band limited radiating source, as set
 forth in claim 9, including an inductor connected in
 series with said monopole driver.

11. A band limited radiating source, as set
 forth in claim 9, wherein said monopole driver has a
 frequency response range of about 40 Hz to about 200
 Hz.

12. A band limited radiating source, as set forth in claim 9, including a seal between said mounting plate and said tub.

13. A band limited radiating source, as set forth in claim 9, wherein said rear tub is sealed to a rear surface of said mounting plate.

14. A band limited radiating source, as set forth in claim 9, wherein a top portion of a rear panel of said rear tub is offset inward toward said mounting plate to have lesser depth than a bottom portion of
5 said rear tub to thereby form a slot.

15. A band limited radiating source, as set forth in claim 14, wherein said electrical connector is positioned in said slot.

16. A band limited radiating source, as set forth in claim 15, wherein said electrical connector is flush with said lower portion of said rear panel.

17. A method for determining loss in baffling due to speaker environment in a vehicle being non-ideal, comprising the steps of:

producing a monopole low frequency test woofer
5 having a frequency response and resonance output matching an optimized vehicle dipole speaker;

determining output of the vehicle dipole speaker;

measuring output of said test woofer in said
10 vehicle; and

comparing said outputs with appropriate level correction and determining frequency response difference which is the loss in baffling due to speaker environment in the vehicle.

20. A method, as set forth in claim 17, wherein the test woofer producing step includes attaching an inductor in series with said monopole driver.